

5/16/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	
P0039829	THY001-VC	3	1	Net 30	M304R0.625	304 SS Round bar 0.625 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	5/15/2018	12		S071719	Stock	5/16/2018	\$ 7.08 / ft	0	
		4			M6061T6R7.000	6061-T6 Round Bar 7.000"" (CUT TO SIZE: 7.125"") : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				3	5/14/2018	3		S071720	Stock	5/16/2018	\$ 148.21 / ft	0	
Total:										15		15							

Plex 5/16/2018 8:10 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039829**

Supplier: THY001-VC
Thyssenkrupp Materials CA Ltd
O/A VPK Metal- c/o T27540
PO Box 4275, Postal"A"
Toronto
ON
M5W 5V8 Canada
Phone: 905 669 9444
Fax: 905 738 9033

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039829

PO Date: 5/8/18

Due Date: 5/22/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote no. 1203109433

E-MAILED
MAY 08 2018

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-BRONZE-C63000-R2.500	1 ft lenght	Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	5/22/18	2 ft	0 ft	2 ft	\$172.50/ft	\$345.00
2	M17-4-B0.500X2.000		17-4 SS Bar .500 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	5/22/18	12 ft	0 ft	12 ft	\$19.32/ft	\$231.84
3	M304R0.625		304 SS Round bar 0.625 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	5/11/18	12 ft	0 ft	12 ft	\$7.08333/ft	\$85.00

5/8/2018

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6R7.000		6061-T6 Round Bar 7.000" (CUT TO SIZE: 7.125") : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	5/22/18	2.969 ft	0 ft 3	3 ft	\$148.21052/ft	\$440.04
<div> <div>Line Item Note</div> <div>note; cut to 7.125" x 5 pcs = 2.96875 ft</div> </div> <div> <div>Grand Total:</div> <div>\$1,101.88</div> </div>										

DAS
11

MAY 16 2018

-89

Order Notes

Procurement Quality Clauses

A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Plex 5/8/18 11:44 AM dart.lavoie.chantal



thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DELIVERY NOTE



DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 05/15/2018
DOC. NO: 2405960177*
BOL. NO: 2405960177
ORDER NO: 1403639010
YOUR P/O: P0039829
CUSTOMER NO: 10058125
Route: 303-A
CONTACT: Lucy Truglio
TEL:
FAX:
EMAIL: lucy.truglio@thyssenkrupp.com

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAG
0010	AMS-QQ-A-225/8 AMS4117/4128/4115/4116 OR AMS-QQ-A-200/8, AMS4160, ASTM B221	5 PC	1008600349

ALRD00065

6061 T6511 Aluminum Extruded Round

7.0000 (+-.044) X 7.1250 " RBW Cutting - Standard +.125

Cut To Length

7.1250 " 5

Nominal Chemistry/Act Physical

Standard Packaging

AMS-QQ-A-225/8 AMS4117/4128/4115/4116 OR
AMS-QQ-A-200/8, AMS4160, ASTM B221

TAGNUM	QTY	UOMVEND	VENDPO	HLOT	PCS	COM
1013838850	5	PC KAISER AL	5400394015	Z00025408	5	

ROHS COMPLIANT;ASTM B 221|2014

Total Gross Weight

147.000 lb

All items, not declared as partial delivery, are final quantities.
Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE:	05/15/2018
DOC. NO:	2405960177*
BOL. NO:	2405960177
ORDER NO:	1403639010
YOUR P/O:	PO039829
CUSTOMER NO:	10058125
Route:	303-A
CONTACT:	Lucy Truglio
TEL:	
FAX:	
EMAIL:	lucy.truglio@thyssenkrupp.com

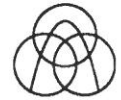
CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance





thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DELIVERY NOTE



①
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 05/14/2018
DOC. NO: 2405956788*
BOL. NO: 2405956788
ORDER NO: 1403639010
YOUR P/O: PO039829
CUSTOMER NO: 10058125
Route: **303-A**
CONTACT: Lucy Truglio
TEL:
FAX:
EMAIL: lucy.truglio@thyssenkrupp.com

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAG
0010	ASTM A276	1	1008599134
	SSRD75969		PC
	T-304L Stainless Steel Round		13
	0.6250 " X 144 Mill Length		lb
	Actual Chemistry/Act. Physical		
	Standard Packaging		
	ASTM A276		

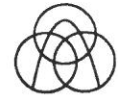
TAGNUM	QTY	UOMVEND	VENDPO	HLOT	PCS	---	COM
2001354943	1	PC	ACEROS IN	0000641197 439067	1		

Total Gross Weight

23.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID



thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE:	05/14/2018
DOC. NO:	2405956788*
BOL. NO:	2405956788
ORDER NO:	1403639010
YOUR P/O:	PO039829
CUSTOMER NO:	10058125
Route:	303-A
CONTACT:	Lucy Truglio
TEL:	
FAX:	
EMAIL:	lucy.truglio@thyssenkrupp.com

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date où la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304RO.625
 DATE: MAY 16 2018

PO / BATCH NO.: 039829/5071719

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Astm A276</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Heat # 1014 439067</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>11</u> MAY 16 2018		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276

PART NUMBER: M304R/D.DDD | D/A.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M304R0.750

RELEASED
09/07/15

B	REFORMAT DWG. ADD SPECS (ZN D6-1), REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	ASS		
DRAWN	GA		
CHECKED			
MFG. APPR.	M304R		
APPROVED			
DE APPR.			
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M304R SHEET 1 OF 1			
TITLE SCALE			
304/316 ROUND BAR NTS			
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FOR THE USE OF THE CANADIAN GOVERNMENT AND THE PUBLIC			
UNLESS OTHERWISE INDICATED BY THE CANADIAN GOVERNMENT			

Larrondo LOIU (VIZCAYA) España
P.O. Box 1.323/48080 Bilbao
Tel. 34-(4) 4 71 13 00
Fax.34-(4) 4 53 16 35

Management Systems
Certified by
LRQA
ISO 9001 / SGI 6000360
ISO 14001 / SGI 1670678

ACEROS INOXIDABLES

OLARRA

THYSSENKRUPP MATERIAS NA
2821 LANGSTAFF ROAD.
CONCORA - ONTARIO L4K 5C6 - CANADA

Trade Mark - Zeichen des Lieferwerkes
Anagrama del suministrador



Works Inspector Stamp - Werkssachverständiger
Sello del Inspector

3

Certificate type - APZ Nach Certificado tipo		EN 10204/3.1		Certificate n° - Prüf-Nr Certificado n°		321263		Date - Datum - Fecha 19 - 07 - 2017	
Our order N° Werks - Nr N° de Referencia		641190		Heat Schmelze Colada		439067		Your order N° Bestell - Nr Pedido N°	
Steel Grade Werkstoff Calidad		AISI-304-L MECAMAX		According to Entsprechend Corresponde		ASTM A 479 / A 479M-15.			
Shape and Size - Gegenstand Perfil y dimensión ROUND 5/8"		Tolerance - Toleranz Tolerancia ASTM A 484 /TB.7		Bundles Bunde Bultos		6		Bars Stäbe Barras	
				Weight Gewicht Peso		8380 Lbs			
Requirements - Anforderungen - Exigencias									
ASME SA 479 / SA 479M-15 ASTM A 276/A 276M-16a. ASTM A 182/A 182M-16. ASME SA 182 / SA 182M-15 ASTM A 193/A 193M-16 B8 CLASS.1. ASME SA 193/SA 193M-15 B8 CLASS.1. AMS QQS 763D-15 COND.A.					EN 10.088-3.2014. EN 10.272-2007. UNS S30403-Type 304-UNS S30400-1.4301-1.4307. PED 2014/68/EU, Annex I, Parag.4.3/DGR 2014/68/EU Anhang I Absatz 4.3 Certificate/Zertifikat Nr. 348/2008/MUC				
Melting process / Erschmelzungsart / Proceso de Fusión E.A.F. / A.O.D.				Heat treatment / Wärmebehandlung / Tratamiento térmico 1050C 4H/Std WATER/WASSER/AGUA					
Solution annealed/Abgeschreckt/Hipertemple-Cold drawn/Gezogen/Estirado-Polished/Poliert/Pulido-									
Test results - Ergebnis der Prüfungen - Resultados de los ensayos									
Dimension of Specimen Abmessungen des Probestabes Medida de las probetas		Rp0.2% KSI	Rp 1% KSI	Rm KSI	A %L 5D	A %L 4D	Z %	Hardness Härte HBw	Impact test / Kerschschlag / Resiliencia ISO V ft. lb
RD. 12,50 mm.		Min. 25		70		30	40		
		Max.							
Temperature °C 20	Spec. N° Probe Nr. Pro N°	1	87	104	110	34	70	241	
C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N
Min.					18,00		8,00		
Max.	0,030	1,00	2,00	0,045	0,030	20,00	12,00		0,1000
	0,020	0,29	1,45	0,039	0,025	18,00	0,35	8,10	0,0900
								0,50	0,14
Visual and dimensional inspection Besichtigung und Ausmessung Control visual y dimensional		Radioactivity inspection Radioaktivitätskontrolle Control de Radioactividad		Antimixing test Spektroskop Verwechslungspr Antimezcla		Grain Size Korngrösse Tamaño de grano			
O.K.		O.K.		O.K.					
Remarks - Bemerkungen - Observaciones									
Free From Mercury contamination/Quecksilberfreiheit. No weld repair.									
EDV / EDP Acc. EN 10.204 Marian Tejedo Quality Mng. Works Inspector Der Werkssachverständige Inspector de fábrica									

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6R2.000
 DATE: MAY 16 2018

PO / BATCH NO: 039829/6071720

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: 3'

THICKNESS ORDERED: 7.000
 THICKNESS RECEIVED: 7.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Astin 8221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat # 2000 25408</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 16 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221 *end*

PART NUMBER: M6061T6R/D.DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
MP

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN D8-1), REF. PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>MP</i>		
DRAWN	<i>MP</i>		
CHECKED	<i>MP</i>		
MFG. APPR.	<i>MP</i>		
APPROVED	<i>MP</i>		
DE APPR.	<i>MP</i>		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
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KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: 5400394015-1		CUSTOMER PART NUMBER: ALRD00065		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 7.000 +/- .022	
KAISER ORDER NUMBER: 6050663	LINE ITEM: 001	SHIP DATE: 03/23/2018	KAISER LOT NUMBER: Z00025408	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 2172.000 LB	QUANTITY: 4.000 PCS	B/L NUMBER: 622247	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, QC H4S 1A7 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA PO BOX 5116 SOUTHFIELD, MI 48086-5116 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00025408	0001	0001	55.4	51.6	11.8	RE 93	N/A	N/A
Z00025408	0002	0001	50.0	46.2	14.6	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108365	.76	.29	.30	.09	.97	.10	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00327264
Kaiser Order Number: 6050663
Line Item: 001

From: TK Materials CA, Ltd.

Page 1 of 1

Cust. DART AEROSPACE LTD

Del.: 2405960177

CstAr

CstOr PO039829

Wgt.: 135 LB

Date 05/11/2018

Thomas Sanchez